

# FUEL TANK TRUCK INSTRUCTION MANUAL

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The fuel tank is made of high-quality steel plate with square cylinder structure. The whole tank is single compartment. There are through holes at the lower end of the middle baffle plate. The middle of each compartment is welded with strengthened wave proof baffle plate to reduce the impact of fuel in the tank and improve the rigidity of the tank body when driving.

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## 1.European standard manhole



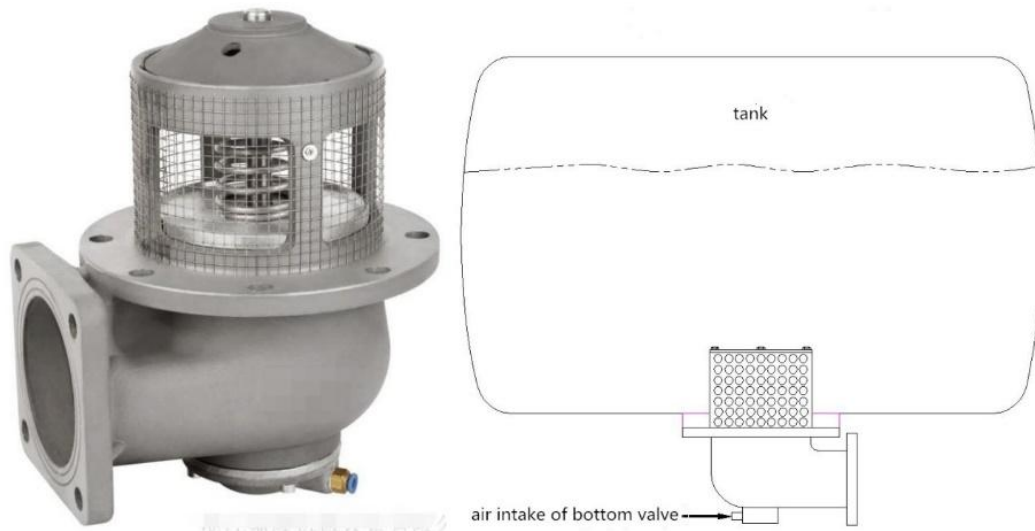
The European standard manhole is installed on the top of the tank , with built-in breathing and emergency exhaust function, the built-in breathing valve keeps the internal pressure of the tank stable during the fuel transportation process, and achieves balance with the external pressure.Prevent overflow design to seal the tank in case of accident.

When the pressure in the tank rises sharply, the emergency exhaust device will automatically open and release the pressure in the tank, so as to prevent accidents and greatly improve the safety of fuel transportation.

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## 2. Bottom valve



Bottom valve is installed at the bottom of tank body of tank , as the chassis is equipped with oil brake system, our truck adopts manual control ,this valve's internal pressure is small ,and flow is large. there is a cut-off groove on the flange side of the valve .In case of an accident in the fuel tank, the pipeline and tank will be automatically disconnected due to the broken tank cannot bear too much impulse, while the automatic centering plunger and durable spring will remain sealed, and the medium in the tank will not leak, so as to ensure the safety of the fuel tank.

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## 4.Oil delivery hose

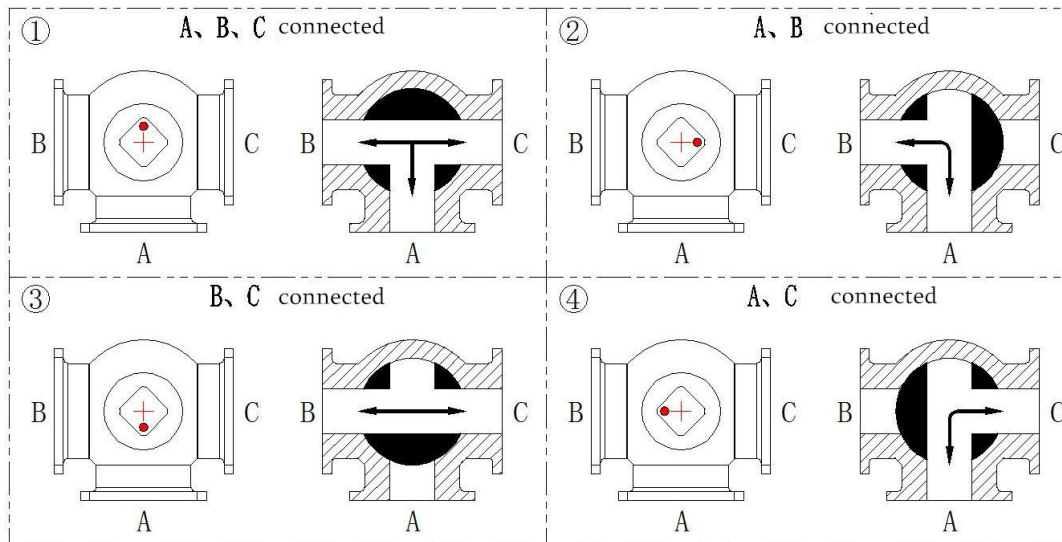
The oil delivery hose adopts quick change joint, direct butt joint, the end face is sealed with rubber ring, the disassembly and assembly is quick, convenient and the sealing is reliable. The oil delivery hose assembly is safe and reliable after conducting test.



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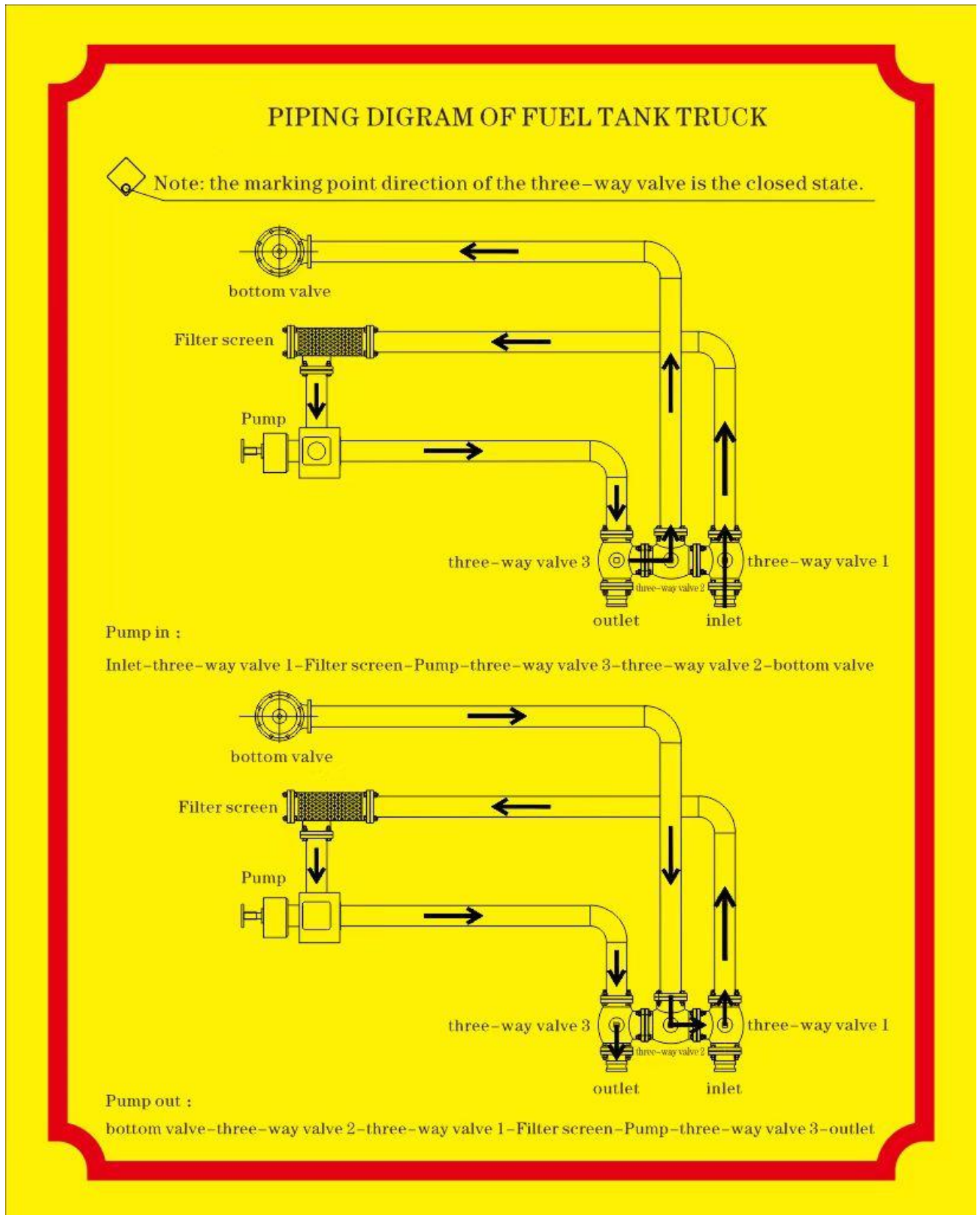
## 5. three-way valve :

The control valve is a three-way valve, with the structure shown in the figure. During the use, the direction of the mark point on the valve indicates that this direction is closed.



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## 6. Piping Diagram :



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## 7.Maintenance and repair

1)、The use and maintenance of chassis and engine parts shall be operated according to the vehicle chassis instructions.

2)、 Safety valve and filter net shall be inspected and cleaned frequently.

3)、 Oil tanks and piping systems should be cleaned regularly.

Periodic checks are taken to ensure that joints of the piping system are connected well and sealing .

4)、 To keep oil tank clean, oil tanks and oil delivery systems should be regularly cleaned. the inner and outer joints of both ends of the oil delivery hose should be lubricated regularly, which is easy and convenient to assemble and disassemble. after operation of oil hose, the outer covers of the inlet ,outlet and each ends cover of the oil hose should be covered timely to ensure the cleanness .

5)、 The oil loading should not exceed the rated loading quality.

(converted by oil density)

6)、 Ball valve through the media should not be dirty, to protect the sealing ring and improve the service life of the ball valve. Each ball valve

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should not be in a half-closed or half-open state for a long time, otherwise the sealing ring will deteriorate, and the handle of each ball valve should be closed during driving.

7) 、The inlet filter should be frequently washed and cleaned to prevent oil sludge from blocking the filter screen and affecting the flow rate.

8) 、 Keep the breathing valve clean and keep it in working condition. The spring in the valve shall not be replaced at will to avoid affecting the effect of breathing , When the breathing valve is blocked, there is a risk of tank deformation.

9) 、 In order to prevent the fire accident of the tanker, when the exhaust pipe and muffler are damaged, the pipeline leaks oil, and the guide electrode is damaged or broken, it is not allowed to knock the parts of the tanker with metal objects, so as to avoid sparks. The tanker shall be prepared with fire-fighting equipment at any time.

10) 、 When it is necessary to work in the oil tank, pay attention to good ventilation, wash and steam the tank, do not wear clothes with static electricity, and there must be someone outside the tank for protecting.

11) 、Before the operation of fuel truck, check that the pipeline system can not leak oil, the grounding wire can not be disconnected, and the exhaust pipe is not damaged, problems found should be solved before operation



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## 8. Malfunction Causes and Solutions :

No.	Common faults	Fault causes	Solutions
1	Abnormal oil absorption, no oil absorption or less oil absorption	1.1.no priming oil in pump.	Refueling 10L
		1.2.Oil absorption depth exceeds 5m	Exceeding the scope of use of this vehicle
		1.3.All ball valves are not opened in right postion.	Adjust the handle of each ball valve
2	Low or no vacuum value	2.1.The oil suction pipe is not sealed	Make it well sealed
		2.2.Oil pump impeller clearance increased	Check and repair the oil pump
		2.3.Vacuum gauge damaged	Replace it
3	High vacuum value	Oil suction pipe partially blocked	Clean the filter screen and some pipes of oil suction pipe
4	Pressure gauge no(or lower)value	4.1.The oil outlet is not well sealed	Make it well sealed
		4.2.Pressure gauge damage	Replace it
5	Abnormal sound of PTO	5.1.The gas pressure of truck is not enough, and the power take-off box is not put into gear	The pneumatic power take-off box will have enough gas to make the pressure gauge read above 0.3MPa
		5.2.The gas path is not sealed tightly, and the power take-off box is not put into gear	Make it well sealed
		5.3.The gas chamber is damaged,and the power take-off box is not put into gear	Repair gas chamber
		5.4.Wear of power take-off box parts	Dismantle, check, clean and replace worn parts

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		5.5. Too little lubricating oil or impurities in the power take-off box	Add oil or change lubricating oil
6	Abnormal sound of the gearbox	6.1. Too little lubricating oil or impurities in the gearbox	Add oil or change lubricating oil
		6.2. Wear of gearbox	Dismantle, check, clean and replace worn parts
7	No sediment can be discharged from the tank settling	Impurities block dust-proof pipes	clean away

